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INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(use as many sheets as necessary)*	Application Number	09/868,664
	Filing Date	September 26, 200~~~
	First Named Inventor	Bell
	Art Unit	~~2121~~ 2129
	Examiner Name	Nichols
Sheet	1	of	4	Attorney Docket Number	05222.00161

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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] - Number[4] - Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
JU.M.	1	WO 00/04478 A2	01/27/00	Jonsson		

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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JU.M.	2	"A Browser-Based System to Support & Deliver DE," 28th Annual Frontiers in Education Conference, Conference Proceedings, Vol. 1, Nov. 4-7, 1998, Douhe pp 479-484	
	3	"A Fuzzy Logic-Based Intelligent Tutoring System," Information Processing 92, Vol. II, pp. 66-72, Dec. 1992, Regian et al	
	4	"A Goal-Centered Architecture for Intelligent Tutoring Systems," Proc. Of 7th World Conf. On Artificial Intelligence in Education, pp. 307-314, Aug. 1995, Reye	
	5	"A Role for AI in Education: Using Technology to Reshape Education", Northwestern University, The Institute for the Learning Sciences, Journal of Artificial Intelligence in Education, Winter 1990, January 1990, pp. 1-24 and 2 pgs. of references, Schank et al	
	6	"A Special Section -- Goal Based Scenarios: A New Approach to Professional Education: Reengineering Education at Andersen Consulting," Educational Technology, Nov.-Dec. 1994, Nowakowski, pp 3-8	
	7	"An Electronic Infrastructure for a Virtual University," Communications of the ACM, Vol. 40, No. 9, Sep. 1997, Chellappa et al, pp 56-58	
	8	"An Object-Oriented Architecture for Evolutional Development of Interactive Learning Environment with Coached Problem-Solving," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 592-94, Dec. 1997, Itoh et al	
	9	"Architecture of an Intelligent Tutoring System on the WWW," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 39-46 Dec. 1997, Nakabayashi et al	
	10	"Artificial Intelligence and Mathematics Education" at http://www.rand.org/hot/mcarthur/Papers/aied.html, McArthur, pp 1-8, Jan. 2001	
	11	"Authoring Intelligent Tutoring Systems: An Analysis of the State of the Art" at http://www.cs.umass/edu/~tmurray/papers/ATSummary/AuthTools.html, Murray, pp 1-35, July 2001	
	12	"Automate Your Business Plan" at www.business-plan.com/screen2.html, pp 1-4, July 2001	
	13	"Automated Exercise Progression in Simulation-Based Training," IEEE Trans. On Systems, Man, and Cybernetics, Vol. 24(6), pp. 863-74, June 1994, Gonzalez et al	
	14	"Automated Training of Legal Reasoning" at http://www.bileta.ac.uk/94papers/muntjew.html, Muntjewerff, pp 1-7, April 1994	
	15	"BrainMaker Neural Network Application Examples" at www.calsci.com/Applications.html, 63 pages	
	16	"Brainmaker" at www.npiec.on.ca/~echoscan/28-04.htm July 2001, 1 page	
	17	"Bridging the Virtual and the Physical: The InterSim as a Collaborative Support Interface," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 556-58, Dec. 1997, Robinson et al	
JU.M	18	"CAPTOR a model for delivering web based intelligent tutoring system technology", IEEE Proc. DASC vol. 2, pp 5.C.4.1-5, Shreiner, 2000	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T [2]
/u.b.	19	"Computer Aided Instruction for Statistics: A Knowledge-Based Systems Approach," Int'l J. of Computers in Adult Education and Training, Vol. 5(1), pp. 3-14. *Prabhu, November 1995*	
	20	"Conducting and Supporting a Goal-Based Scenario Learning Environment," Educational Technology, Nov.-Dec. 1994, *Montgomery et al, pp 15-20*	
	21	"DDD–A Free Graphical Front-End for UNIX Debuggers," Jan. 1996, ACM Sigplan Notices, Vol. 31, No. 1, pp. 22-27 *Zeller et al*	
	22	"Decision Pro3.0" at www.vanguardsw.com/, *Vanguard Software Corporation, Jan. 2000, 40 pgs.*	
	23	"Developing a Design System into an Intelligent Tutoring System," Int'l J. Engr. Eud., Vol. 13(5) 341-46, Dec. 1997, *Cheok et al*	
	24	"Development of a Simulation-Based Intelligent Tutoring System for Assisting PID Control Learning," Jan. 1994, IEICE Transactions on Information and Systems, E77-D, No. 1, Tokyo Japan, pp. 108-17., *Nogami et al, Jan. 1994*	
	25	"Development of an Integrated Simulator and Real Time Plant Information System," Advances in Operational Safety of Nuclear Power Plants, Proceedings of an International Symposium 1996, pp. 543-549. *Gonzalez et al, September*	
	26	"Distributed Intelligent Tutoring on the Web," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 482-89, Dec. 1997, *Brusilovsky et al*	
	27	"Eight Goal-Based Scenario Tools", Technical Report # 67, Northwestern University, The Institute for the Learning Sciences, January 1996, pp. 1-37, *Schank et al*	
	28	"Embedding an Intelligent Tutoring System in a Business Gaming-Simulation Environment," Proc. Of the 1994 Winter Simulation Conference, pp. 1399-1406, Dec. 1994, *Siemer et al*	
	29	"Engines for Education" URL: http://www.ils.nwu.edu/~e_for_e/nodes/I-M-INTRO-ZOOMER-pg.html; viewed Feb. 18, 1999. *1994, Schank*	
	30	"Enhancing Simulation Education with Intelligent Tutoring Systems," Proc. Of the 1996 Winter Simulation Conf., pp. 675-80, Dec. 1996, *Taylor et al*	
	31	"Evaluating Intelligent Tutoring with Gaming Simulations," Proc. Of the 1995 Winter Simulation Conf., pp. 1376-83, Dec. 1995, *Siemer et al*	
	32	"Evaluating the effectiveness of feedback in SQL-tutor", IEEE, proc. Int. workshop IWALT, pp 143-144, *Mitrovic et al, 2000*	
✓	33	"FRA: Teaching Financial Accounting with a Goal-Based Scenario," Intelligent Systems in Accounting, Finance and Management, Vol. 4, 1995 *September, Foster*	
✓	34	"From Computer-Assisted Instruction to Intelligent Tutoring Systems," J. Artificial Intelligence in Education, V. 2(3), pp. 39-50, Dec. 1997, *Livergood*	
	35	"Goal-Based Scenarios and Business Training: A Conversation with Roger C. Schank," Educational Technology, Nov.-Dec. 1994, *Graham, pp 27-29*	
	36	"Goal-Based Scenarios and the Problem of Situated Learning: A Commentary on Andersen Consulting's Design of Goal-Based Scenarios," Educational Technology, Nov.-Dec. 1994 *Collins, pp 30-32*	
	37	"Goal-Based Scenarios", Technical Report # 36, Northwestern University, The Institute for the Learning Sciences, December 1992, pp. 1-30, *Schank*	
	38	"Intelligent Computer-Aided Instruction: A Survey Organized Around System Components," Jan. 1989, IEEE Inc., New York, Vol. 49, No. 1, pp. 40-57., *Rickel*	
	39	*Yazdani, Expert Systems, Vol. 3, No. 3, pp 454-462, July 1986* "Intelligent Tutoring Systems: An Overview" at http://www.intellectbooks.com/authors/lawler/its.htm	
	40	"Interactive Multimedia Instructs the Individual," Oct. 1994, Occupational Health & Safety Vol. 63, No. 10, pp. 144-145, *Calmbacher*	
	41	"Interface design issue for advice-giving expert systems", Comm. Of the ACM, vol 30, no. 1, pp14-31, *Carroll et al*	
	42	"KBLPS Overview" at www.cgi.com/CGIWEB/KBLPS/overindex4.html, *13 pgs., August 1999*	
	43	"Kiplinger TaxCut Press Releases" at http://www.taxcut.com/taxcut/98press_releases/pr98_nowshipping.html, *pp 1-2, 12/2/98*	
/u.b.	44	"Learning with Computers," May 1994, Accountancy Vol. 113, No. 1209, pp. 60-64, *Cole, May 1994*	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T [2]
QMill	45	"Microworlds and Simuworlds: Practice Fields for the Learning Organization," Spring 1996, Organizational Dynamics Vol. 24, No. 4, pp. 36-49 *Keys et al*	
	46	"MUSE U.S. Patents" OCCAM Research Corporation, at www.muser.com/html/patents.html *pp 1-2, January 2002*	
	47	"News for ESAP" at www.hops.wharton.upenn.edu/~esap/news.html, *1 page, August 1999*	
	48	"No More Boring CPE," July 1997, Accounting Technology, pp. 27-35, *Cohn*	
	49	"Object Lens: A "Spreedsheet" for Cooperative Work", ACM Transactions on Information Technology, 1988 at www.acm.org/pubs/toc/Abstracts/tois/59298.html, *Lai et al, pp 332-353*	
	50	"Pedagogical, natural language and knowledge engineering techniques in SOPHIE I, II, and III," in Intelligent Tutoring Systems, D. Sleeman & J.S. Brown eds., pp. 227-82, Dec. 1982, *Brown et al*	
	51	"Persistent Issues in the Application of Virtual Environment Systems to·Training," August 1996, Proceedings. Third Annual Symposium on Human Interaction with Complex Systems, IEEE, pp. 124-32. *Caird*	
	52	"Popular Theory Supporting the Use of Computer Simulation for Experiential Learning," http://www.centurionsys.com/rtcl57.html, Aug. 1997, *Bell, pp 1-5*	
	53	"Practical methods for automatically generating typed links", ACM Hypertext, pp 31-41, *Cleary et al*	
	54	"Projects: FinPlan System" at www.rrial.org.ru/FinPlan/, *pp 1-2, July 2002*	
	55	"RadTutor: The Theoretical and Empirical Basis for the Design of a Mammography Interpretation Tutor," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 386-393 Dec. 1997, *Azevedo et al*	
	56	"Rule-Based Programming with OPS5" at www.mkp.com/books_catalog/O-934613-51-6.asp, *Cooper, 1988*	
	57	"Simulation Technology and Parallelism in Learning Environments" at http://www.to.utwente.nl/prj/min/Book/chapter1.htm *Min, pp 1-26, July 2002*	
	58	"Smart Avatars in JackMOO," Proceedings of the 1999 IEEE Conference on Virtual Reality, pp. 156-63, *Shi et al*	
	59	"SMART Evaluation: Cognitive Diagnosis, Mastery Learning & Remediation," Proc. Of 7th World Conf. On Artificial Intelligence in Education, pp. 123-130, Aug. 1995, *Shute*	
	60	"Smartlaw: adapting classic expert system techniques for the legal research domain", ACM pp 133-141, *Hafner et al, 1993*	
	61	"Socialized Collaborative Learning in Multimedia Virtual Worlds" URL: http://www.iscs.nus.edu.sg/labs/learning/iels/VRML.html; viewed Feb. 16, 1999 *1999/pp, pp 1-4*	
	62	"Task-Oriented Learning on the Web"; Innovations in Education and Training International, Vol. 36, No. 1, Feb. 1999 *Whittington et al, pp 26-33*	
	63	"Teaching Real-World Analysis Skills for Goal-Based Scenario," pp. 68-74, *Foster, July 2002*	
	64	"Teaching Through Case-Based Reasoning: An ITS Engine Applied to Business Communication," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 111-18 Dec. 1997, *Papagni et al*	
	65	"Teaching with the Internet" 1998, JAI Press Inc., USA, Vol no. 3, pp 217-222, *Herron*	
	66	"Technical Report: Computer Aided Education and Training Initiative" at http://advlearn.lrdc.pitt.edu/advlearn/papers/FINALREP.html, *Suthers, January 1998, pp 1-52*	
	67	"Developing a WFT Workflow System", Workflow Template, Chapter 8, 1998, pp. 8-1/8-23	
	68	"The Design of Goal-Based Scenarios", Technical Report # 39, Northwestern University, The Institute for the Learning Sciences, March 1993, pp. 1-58, *Schank et al*	
	69	"The Lisp Tutor," Byte, pp. 159-75, Apr. 1985, *Anderson et al*	
	70	"The Roles of Artificial Intelligence in Education: Current Progress and Future Prospects" at http://www.nib.unicamp.br/recursos...education/intelligent-tutoring.html *McArthur et al, 1993, pp 1-42*	
	71	"The SimQuest Authoring System for Simulation-Based Discovery Learning," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 79-86, Dec. 1997, *van Joolingen et al*	
	72	"The Virtual Learning Environment System," 28th Annual Frontiers in Education Conference, Conference Proceedings, Vol. 2, Nov. 4-7, 1998, *Kumar et al, pp 742-746*	
QMill	73	"Train with Less Pain," Oct. 13, 1997, Informationweek No. 652, pp. 150-154, *McGee, pp 150 & 154*	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T [2]
M.M	74	"TurboTax Deluxe Product Information" at http://www.intuit.com/turbotax/prodinfo/ttdlx.html *ppd-2*	*2*
	75	"Understanding Organizational Dynamics of IT-Enabled Change: A Multipedia Simulation Approach," Winter 1997/1998, Journal of Mangement Information Systems: JMIS, Vol. 14, No. 3, pp. 109-140. *Mauzoni et al*	
	76	"User-Sensitive Multimedia Presentation System," IBM Technical Disclosure Bulletin, March 1, 1996, Vol. 39, No. 3, pp. 93-94	
	77	"Using Planning Techniques to Provide Feedback in Interactive Learning Environments," Proc. Sixth Int'l Conf. On Tools with Artificial Intelligence," pp. 700-03, Nov. 1994, *Kemp et al*	
	78	"Using the Wizard of Oz Technique to Prototype a Scenario-Based Simulation Tutor," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 458-65, Dec. 1997, *Kemp*	
	79	"Virtual Learning: A Revolutionary Approach to Building a Highly Skilled Workforce," ~~Autumn 1998~~, Personnel Psychology Vol. 51, No. 3, pp. 767-71, *Schank*	*1997*
	80	"What are Intelligent Coaching Systems and Why are they (in)evitable?" IEEE Colloquium on Artificial Intelligence in Educational Software, pp. 2/1-2/5, June 1998, *Breuker*	
	81	"Why Should the Teens Have All the Best Games? Management Skill with Oil, Health, Housing Games," Computergram Int'l, June 17?, 1996, *ppd-2*	
	82	"WITS: A Reusable Architecture for a VR-Based ITS" at http://advlearn.lrdc.pitt.edu/its-arch/papers/tam.html, *Tam et al, 61d0196, ppd-5*	
	83	"Computer Dictionary", 1997, Microsoft Press, 3rd Ed., pp. 264, 276, 383, 446, 462, 507.	
	84	"Flexible Learning", Feb. 1998, Credit Union Management Vol. 21, No. 2, pp. 32-33 *& 38, Graving + Pophal*	
	85	"The Prototype of the Virtual Classroom", Interactive Multimedia Distance Learning (IMDL): NLII Viewpoint, Fall/Winter 1997, *Wilson et al, ppd-9*	
	86	"Multimedia Training... Get Lemonade, Not a Lemon!" June 1997, Journal for Quality and Participation vol. 20, No. 3, pp. 22-26, *Burns*	
M.M	87	"The Virtual Classroom: Great Expectations. Delivering Graduate Education by Computer: A Success Story", 1996., *Seagren et al, pp 502-507*	

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